



Xtreme Power company Overview

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Xtreme Power Overview

Xtreme Power is a world leader in utility-scale energy storage solutions specializing in turnkey system integration and real-time software controls.

- Experts in battery-based energy storage system integration
 - Work with leading battery and Power Conversion Systems manufacturers to ensure optimal technology in each system
- Proprietary XACT™ control system enables real-time manipulation of power
- Four product lines each designed for specific customer needs & applications
- Founded in 2006 with significant operational experience

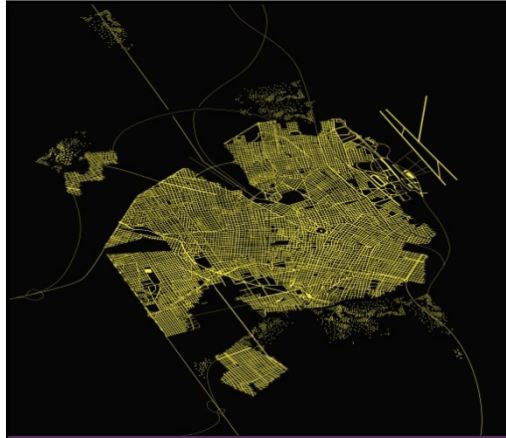


Power Management & Energy Storage Solutions Across the Energy Value Chain



Renewable Generators

**Reduces intermittency
in renewable power
sources & maximizes
the value of generation
assets**



Grid Operators

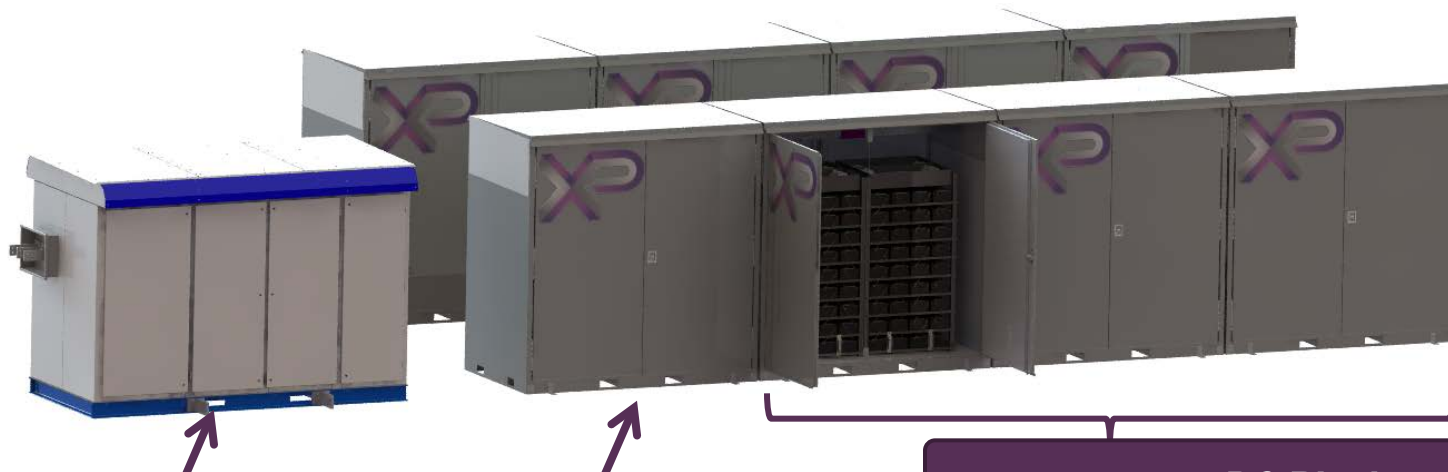
**Enhance flexibility and
boost reliability with
instantly available
power when it's
needed, where it's
needed**



Energy End Users

**Maintain productivity
& cut expensive energy
costs for even the most
intensive & remote
operations**

Customized solutions without the headache and cost of customized design



Power Block

- Power Electronics
- XACT™ *Distributed Controller*

Control Block

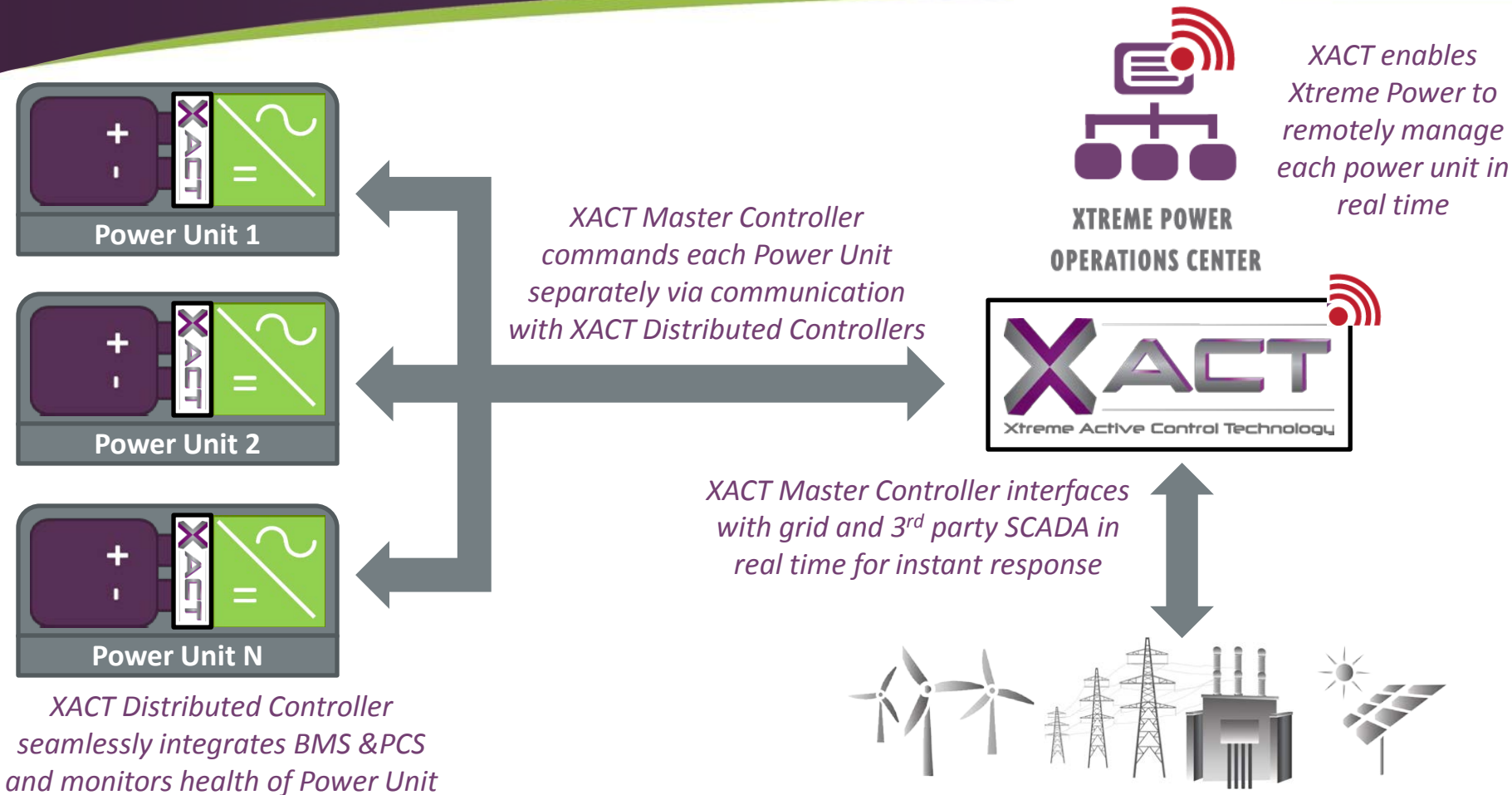
- XACT™ *Master Controller*
- Fire Suppression
- Server Communications
- DC Block BMS
- Protection Relays
- HVAC

DC Block

- Multiple outdoor rated enclosures
- Battery energy storage technology
- Fire Suppression
- BMS Communications
- DC protection relays

Xtreme Active Control Technology (XACT)

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- Industry leading response time of < 50 milliseconds
- Versatility enables seamless integration of multiple technologies
- Remote management and data collection ensures proper performance

Engineering, Testing & Development Capabilities

XP has 4 MW grid connected Test Facilities. No competitor does.



Product Test Bays

- Capable of up to 20 MW full-function operation
- Integrated System Factory Acceptance Testing
- Full 4-quadrant PQ operation
- Tests Ramp Control, Frequency Regulation, Voltage Regulation, and other applications

Battery Testing & Development Facility

- Tests 12 DCV modules to 1000 DCV strings
- 12 fully independent test channels with Wind, Solar, and Frequency Regulation profiles
- Evaluates battery capacity, characterization, voltammetry, temperature, and performance

Remote Monitoring & Diagnostics Center

The electric grid never sleeps. Neither does Xtreme Power.

- Monitors all installations in the field in real-time, 24x7
- Provides worry free system performance management
- Collects and stores data to create graphs of historical & live operational data
- Remote access via secure Virtual Private Network
- Option to access through Tablets and Smart Phones
- Automatic Safety Notification Alerts
- Phone Alerts



Significant Operational Experience

12 Systems

In Operation,
Several Repeat
Customers

System Sizes Ranging
from **500 kW**
up to **36 MW**



**7 Unique
Applications**
Delivered Across
**9 Different
Customers**

Proven Energy Storage System Experience

34 Million kWh charged/discharged & counting... XP Products are hard at work.



> 60

Megawatts
Installed



> 474,000

Hours of
Integrated
Power Unit
Operation



> 1,600

Gigabytes of
Recorded Data
Aids in Future
Development



> 34,000

MWh Charged
& Discharged

Leading the Market with Operational Experience

